Town of Smithfield
Wilson Road Elevated Tank
(150,000 Gallons)

Year 1	Cost/Task
Tank Interior	
1) Remove the existing interior reservoir ladder and support brackets and install a new ladder and new solid rail safety climb device compliant with current OSHA regulations.	$
2) Remove the existing interior wet riser ladder and support brackets and install a new ladder and new solid rail safety climb device compliant with current OSHA regulations. Seal weld the lap joint between the roof plate and the dollar plate. Seal weld the individual bolt holes in the existing circular pattern. Seal weld the interior curb projection/roof plate joint.	$
3) Remove the existing overflow pipe and interior weir box from the tank interior. Seal weld a cover plate over the resulting hole in the wet riser bottom plate.	$
4) Install a new weir box attached to the interior wet roof knuckle and a new overflow pipe routed to the tank exterior and down one of the support columns.	$
5) Remove the existing wet riser grating and install a new welded-in-place grating at the top of the wet riser.	$
6) Replace the gasket for the oval, pressure style manway located in the lowest can section of the set riser.	$
7) Repair tank interior coating as necessary due to improvements.	$
8) Washout interior using 4,000 psi pressure washer to remove accumulated mud and sediment. Disinfect interior using AWWA Disinfection Method #2, spray method.	$
Cost of All Tank Interior Tasks	**$**
Tank Exterior	Cost/Task
1) Repair obstruction lights on balcony handrail.	$
2) Remove the rolling roof ladder and install a new OSHA compliant shell/roof ladder. Install a new cable safety climb to the new ladder.	$
3) Install a fourteen foot diameter, circular roof hand rail compliant with current OSHA regulations to enclose the new roof vent. Extend two radial handrails down from the circular handrail to enclose the existing roof manway.	$
4) Remove the existing balcony hand rail and install a new OSHA compliant handrail. Install a new swing gate at the new ladder step opening in the new roof handrail.	$
5) Remove the existing tower access ladder and install new OSHA compliant ladder. Reinstall the solid cover gate over the lower section of the new ladder.	$

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6) Re-install the ladder safety climb device and install the necessary extension section required for safe climber transition from the tower access ladder to the balcony platform.	$
7) Relocate three (3) antenna from center roof finial to new separate support stand (or attach to new circular handrail). Reroute all antenna cables to separate support brackets as to not be connected to any ladders and off the floor platform to avoid a tripping hazard.	$
8) Install a properly sized Tideflex unit on the new overflow pipe. Install an overflow pipe screen retainer and screen. Install a concrete splash pad under the new overflow pipe outlet.	$
9) Repair tank exterior coating as necessary due to improvements.	$
Cost of All Tank Exterior Tasks	**$**
Total Cost for Year 1	**$**

Year 2	Cost/Task
Tank Exterior	
1) Remove the existing finial assembly and install a new removable top mushroom style freeze resistant vent compliant with current OSHA regulations.	$
2) Seal weld the lap joint between the roof plate and the dollar plate. Seal weld each of the individual bolts to the dollar plate in the existing circular pattern.	$
3) Remove and replace the hinged cover on the existing roof access manway with a new hinged cover lid with a two inch overhang. Install one 24-inch diameter round, hinged ventilation roof manway approximately 180 degrees from the existing roof manway.	$
4) Perform weld repairs of the insert plate weld joint (interior wet and exterior dry) for the previous water level cable system. Remove the metal screw from the plate and plug weld the resulting hole. Remove the remaining components of the old water level indicator and shell attachment support brackets.	$
5) Drill 1" diameter holes in the balcony platform at the "ponding" water locations. Epoxy caulk the gap area of the underside joints of the balcony platform/angle iron connections.	$
6) Remove cracked, loose or missing concrete grout under the base plates of all support columns and of the wet riser back to sound concrete and repair with non-shrink 3,000 psi grout.	$
7) Install one 24-inch diameter shell style shell manway in the bottom section of the wet riser, approximately 120 degrees from the existing manway	$

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8) Install a proper overflow drainage system to avoid drainage into the adjacent street drainage ditches	$
9) Repair tank exterior coating as necessary due to improvements.	$
Total Cost for Year 2	**$**

Year 3	Cost/Task
1) Visual external inspection of coatings, structural components, and compliance with OSHA regulations.	$
2) Repairs uncovered through inspection	$
Total Cost for Year 3	**$**

Year 4	Cost/Task
1) Visual external inspection of coatings, structural components, and compliance with OSHA regulations.	$
2) Repairs uncovered through inspection	$
Total Cost for Year 4	**$**

Year 5	Cost/Task	Cost/Task (assuming lead abatement req'd)
1) Repaint Exterior		
a) Abrasive blast all exterior metal surfaces to bare metal in accordance with SSPC-SP6 "Commercial Blast Cleaning." All mill scale and rust shall be removed after blast cleaning, all surfaces shall be thoroughly cleaned of any residue or dust before application of prime coat		
b) Apply a full prime coat of zinc-rich primer at 2.5 to 4.0 mils dry film thickness		
c) Apply an epoxy intermediate coat at 2.0 to 3.0 mils dry film thickness		
d) Apply a urethane finish coat at 2.0 to 3.0 mils dry film thickness		
e) Total DFT: Minimum 6.5 mils		
f) Reapply the existing sign as it currently appears		
Cost to Repaint Exterior	**$**	**$**

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2) Repaint Interior		
a) Abrasive blast all interior metal surfaces to bare metal in accordance with SSPC-SP10 "Near White Blast Cleaning." All mill scale and rust shall be removed after blast cleaning, all surfaces shall be thoroughly cleaned of any residue or dust before application of prime coat.		
b) Apply a full prime coat of epoxy that is NSF approved for contact with potable water at 3.0 to 5.0 mils dry film thickness.		
d) Apply a full finish coat of epoxy that is NSF approved for contact with potable water at 4.0 to 6.0 mils dry film thickness.		
e) Total DFT: Minimum 12.0 mils		
f) Disinfect interior using AWWA Disinfection Method #2, spray method.		
g) Test the spent abrasive blast debris per TCLP-(8) Heavy Metals		
h) Dispose of abrasive blast debris in accordance with Federal, State, and Local regulations.		
Cost to Repaint Interior	**$**	**$**
Total Cost for Year 5	**$**	**$**

Year 6	Cost/Task
1) Anniversary inspection of coatings	$
2) Repairs uncovered through inspection	$
Total Cost for Year 6	**$**

Year 7	Cost/Task
1) Visual external inspection of coatings, structural components, and compliance with OSHA regulations.	$
2) Repairs uncovered through inspection	$
Total Cost for Year 7	**$**

Year 8	Cost/Task
1) Washout Inspection Service	
a) Washout interior using 4,000 psi pressure washer to remove accumulated mud and sediment.	
b) Inspect the tank.	
c) Disinfect interior using AWWA Disinfection Method #2, spray method.	
d) Perform needed repairs/touchup	

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e) Provide inspection report	
Total Cost for Year 8	**$**